

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/054, 498
Source: IFW/6
Date Processed by STIC: 06/30/2005

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 06/30/2005

PATENT APPLICATION: US/10/054,498

TIME: 10:09:38

Input Set : A:\Seq.Listing.ST25.txt

Output Set: N:\CRF4\06302005\J054498.raw

3 <110> APPLICANT: Welsh, John B.
 4 Hampton, Garret M.
 6 <120> TITLE OF INVENTION: GENES OVEREXPRESSED IN PROSTATE DISORDERS AS DIAGNOSTIC AND
 7 THERAPEUTIC TARGETS
 9 <130> FILE REFERENCE: P1026US20
 11 <140> CURRENT APPLICATION NUMBER: 10/054,498
 12 <141> CURRENT FILING DATE: 2002-01-22
 14 <150> PRIOR APPLICATION NUMBER: 60/263,461
 15 <151> PRIOR FILING DATE: 2001-01-23
 17 <150> PRIOR APPLICATION NUMBER: 60/301,639
 18 <151> PRIOR FILING DATE: 2001-06-28
 20 <160> NUMBER OF SEQ ID NOS: 53
 22 <170> SOFTWARE: PatentIn version 3.3
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 2363
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Homo sapiens
 29 <400> SEQUENCE: 1
 30 tcgagcccgcc tttccaggga ccctacctga gggcccccacag gtgaggcagc ctggcctagc 60
 32 agggcccccacg ccaccgcctc tgccctccagg ccgcccgcgtg ctgcgggggcc accatgctcc 120
 34 tgcccaggcc tggagactga cccgacccccg gcactacctc gaggtccgc cccacacctgc 180
 36 tggaccccgag ggtaaggaca agggccccca gactcacagt tccagccctg aggacagggg 240
 38 ttccctcctc cccccaccca gcctaatgcc cacctcctaa tagaggggtt cctgggggacc 300
 40 tgaagagggg gcactatgac gtctcccca gacactaggt gttctgtcct gctcttcctt 360
 42 cagactcagc cggttgagcc cagtcctttc ctccccagac ccaggagttc cagccctcag 420
 44 gcccctctc cctcatacta gggagtcctg gcccccacaa tctcctttc ccaagactta 480
 46 tgatttcagg tctcctcgtg tctctccct caaacccgga tctcagttc cctgctccac 540
 48 caggctcagg catgggggtc cccatccctg caaatccagg cgtccccccg ctgctgggtca 600
 50 gacactgacc ccctccttga acccagccca atctgcgtcc gtgatcacgg cgtgctctgg 660
 52 ccaaggccca gtccctacag cctgcctgga tggacgcctg ggactggggg cgccaggact 720
 54 gggctgggct gggctccccc aggcctgccc tccccgtcca tctcctcaca ggtcccaccc 780
 56 tggcccgagg ggtcagccag ggaatcatta acaagaggca gtgacatggc gcagaaggag 840
 58 ggtggccgga ctgtgccatg ctgctccaga cccaagggtg cagctctcac tgcggggacc 900
 60 ctgctacttc tgacagccat cggggcgcca tcttgggcca ttgtggctgt tctcctcagg 960
 62 agtgaccagg agcgcgtgta ccagtgagc gtcagctctg cggacgctcg gctcatggtc 1020
 64 ttgacaaga cggaggggac gtggcggtg ctgtgctcct cgcgctccaa cgccagggtta 1080
 66 gccggactca gctgcgagga gatgggcttc ctccaggcac tgaccactc cgagctggac 1140
 68 gtgcgaacgg cgggcgccaa tggcacgtcg ggcttcttct gtgtggacga ggggaggctg 1200
 70 cccacacccc agaggctgct ggaggtcatc tccgtgtgtg attgccccag aggcctgttc 1260
 72 ttggccgcca tctgccaaga ctgtggccgc aggaagctgc ccgtggaccg catcgtggga 1320
 74 ggccgggaca ccagcttggg ccggtggccg tggcaagtca gccttcgcta tgatggagca 1380
 76 cacctctgtg ggggatccct gctctccggg gactgggtgc tgacagccgc ccactgcttc 1440
 78 ccggagcgga accgggtcct gtcccgatgg cgagtgtttg ccggtgccgt ggcccaggcc 1500

(Pg-6)

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/054,498

DATE: 06/30/2005

TIME: 10:09:38

Input Set : A:\Seq.Listing.ST25.txt

Output Set: N:\CRF4\06302005\J054498.raw

```

80 tctccccacg gtctgcagct gggggtgcag gctgtggtct accacggggg ctatcttccc 1560
82 ttctgggacc ccaacagcga ggagaacagc aacgatattg ccctgggtcca cctctccagt 1620
84 ccctgcccc tcacagaata catccagcct gtgtgcctcc cagctgccgg ccaggccctg 1680
86 gtggatggca agatctgtac cgtgacgggc tggggcaaca cgcagtacta tggccaacag 1740
88 gccgggttac tccaggaggc tcgagtcccc ataatcagca atgatgtctg caatggcgct 1800
90 gacttctatg gaaaccagat caagcccaag atgttctgtg ctggctaccc cgagggtggc 1860
92 attgatgcct gccagggcga cagcgggtgt ccctttgtgt gtgaggacag catctctcgg 1920
94 acgccacgtt ggcggctgtg tggcattgtg agttggggca ctggctgtgc cctggcccag 1980
96 aagccaggcg tctacaccaa agtcagtgac ttccgggagt ggatcttcca ggccataaag 2040
98 actcactccg aagccagcgg catggtgacc cagctctgac cggtggtctc tcgctgcgca 2100
100 gcctccaggg cccgaggtga tcccgggtgt gggatccacg ctgggcccag gatgggacgt 2160
102 ttttcttctt gggcccggtc cacagggtcca aggacaccct ccctccaggg tctctcttcc 2220
104 cacagtggcg ggcccactca gcccagagac caccacacct caccctcctg acccccatgt 2280
106 aaatattgtt ctgctgtctg ggactcctgt ctaggtgccc ctgatgatgg gatgctcttt 2340
108 aaataataaa gatggttttg att 2363
111 <210> SEQ ID NO: 2
112 <211> LENGTH: 2068
113 <212> TYPE: DNA
114 <213> ORGANISM: Homo sapiens
117 <220> FEATURE:
118 <221> NAME/KEY: misc_feature
119 <222> LOCATION: (143)..(143)
120 <223> OTHER INFORMATION: n is a, c, g, or t
122 <400> SEQUENCE: 2
123 ggcgccggga ttgggagggc ttcttgcagg ctgctgggct ggggctaagg gctgctcagt 60
125 ttcttccagc ggggcactgg gaagcgccat ggcactgcag ggcatctcgg tcgtggagct 120
W--> 127 gtccggcctg gccccggggc gtntctgtgc tatggctcctg gctgacttcg gggcgcggtg 180
129 ggtacgcgtg gaccggcccc gctcccgtca cgacgtgagc cgcttggggc ggggcaagcg 240
131 ctgctagtgt ctggacctga agcagcccg ggcgcgcgt gctgcggcgt ctgtgcaagc 300
133 ggtcggatgt gctgctggag cccttccgcc gcggtgtcat ggagaaactc cagctgggcc 360
135 cagagattct gcagcgggaa aatccaaggc ttatttatgc caggctgagt ggatttggcc 420
137 agttcaggaa agcttctgccc ggtagctgg ccacgatata aactatttgg ctttgtcagg 480
139 tgttctctca aaaattggca gaagtgggta gaatccgtat gccccgctga atctcgtggc 540
141 tgactttgct ggtggtggcc ttatgtgtgc actgggcatt ataattggctc tttttgaccg 600
143 cacacgcact gacaagggtc aggtcattga tgcaaatatg gtggaaggaa cagcatattt 660
145 aagttctttt ctgtggaaaa ctcagaaatc gagtctgtgg gaagcacctc gaggacagaa 720
147 catgttggat ggtggagcac ctttctatac gacttacagg acagcagatg gggaattcat 780
149 ggctgttggg gcaatagaac cccagttcta cgagctgctg atcaaaggac ttggactaaa 840
151 gtctgatgaa cttcccaatc agatgagcac ggatgattgg ccagaaatga agaagaagtt 900
153 tgcagatgta tttgcaaaga agacgaaggc agagtgggtg caaatctttg acggcacaga 960
155 tgctgtgtg actccggttc tgacttttga ggaggttgtt catcatgatc acaacaagga 1020
157 acggggctcg tttatcacca gtgaggagca ggacgtgagc ccccgccctg cacctctgct 1080
159 gttaaacacc ccagccatcc cttcttccaa aggggatcct ttcataggag aacacactga 1140
161 ggagatactt gaagaatttg gattcagccg agaagagatt tatcagctta actcagataa 1200
163 aatcattgaa agtaataagg taaaagctag tctctaactt ccaggcccac ggctcaagtg 1260
165 aatttgaata ctgcatttac agtgtagagt aacacataac attgtatgca tggaaacatg 1320
167 gaggaacagt attacagtgt cctaccactc taatcaagaa aagaattaca gactctgatt 1380
169 ctacagtgat gattgaattc taaaaatggg tatcattagg gcttttgatt tataaaactt 1440
171 tgggtactta tactaaatta tggtagttat tctgccttcc agtttgcttg atatatttgt 1500

```

RAW SEQUENCE LISTING

DATE: 06/30/2005

PATENT APPLICATION: US/10/054,498

TIME: 10:09:38

Input Set : A:\Seq.Listing.ST25.txt

Output Set: N:\CRF4\06302005\J054498.raw

```

173 tgatattaag attcttgact tatattttga atgggttcta gtgaaaaagg aatgatatat 1560
175 tcttgaagac atcgatatac atttatttac actcttgatt ctacaatgta gaaaatgagg 1620
177 aaatgccaca aattgtatgg tgataaaaagt cacgtgaaac agagtgattg gttgcatcca 1680
179 ggccctttgt cttggtgttc atgatctccc tctaagcaca ttccaaactt tagcaacagt 1740
181 tatcacactt tgtaatttgc aaagaaaagt ttcacctgta ttgaatcaga atgccttcaa 1800
183 ctgaaaaaaa catatccaaa ataatgagga aatgtgttgg ctactacgt agagtccaga 1860
185 gggacagtca gttttagggg tgccgtgtatc cagtaactcg gggcctgttt ccccggtggg 1920
187 ctctgggctg tcagctttcc tttctccatg tgtttgattt ctctcaggc tggtagcaag 1980
189 ttctggatct tatacccaac acacagcaac atccagaaat aaagatctca ggacccccca 2040
191 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2068
194 <210> SEQ ID NO: 3
195 <211> LENGTH: 1201
196 <212> TYPE: DNA
197 <213> ORGANISM: Homo sapiens
199 <400> SEQUENCE: 3
200 agtcccagct cagagccgca acctgcacag ccatgcccg gcaagaactc aggacgctga 60
202 atggctctca gatgctcctg gtgttgctgg tgctctcgtg gctgccgcat gggggcgccc 120
204 tgtctctggc cgaggcgagc cgcgcaagtt tcccgggacc ctgagagttg cacaccgaag 180
206 actccagatt ccgagagttg cggaaacgct acgaggacct gctaaccagg ctgcgggcca 240
208 accagagctg ggaagattcg aacaccgacc tcgtcccggc ccctgcagtc cggatactca 300
210 cgccagaagt gcggtgggga tccggcgggc acctgcacct gcgtatctct cgggcccggc 360
212 ttcccagagg gctcccagag gcctcccggc ttcaccgggc tctgttccgg ctgtcccga 420
214 cggcgctcaag gtctgtgggac gtgacacgac ctctgcggcg tcagctcagc cttgcaagac 480
216 cccaggcgcc cgcgctgcac ctgcgactgt cgcgcggcc gtcgcagtcg gaccaactgc 540
218 tggcagaatc ttcgtccgca cggccccagc tggagttgca cttgcggccg caagccgcca 600
220 gggggcgccg cagagcgctg gcgcgcaacg gggaccactg tccgctcggg cccgggctgt 660
222 gctgccgtct gcacacgggt cgcgcgtcgc tggaaagacct gggctggggc gattgggtgc 720
224 tgtcgccacg ggaggtgcaa gtgacatgt gcacgcggc gtgcccagc cagttccggg 780
226 cggcaaacat gcacgcgcag atcaagacga gcctgcaccg cctgaagccc gacacggtgc 840
228 cagcgccctg ctgcgtgccc gccagctaca atcccattgt gctcattcaa aagaccgaca 900
230 ccggggtgtc gctccagacc tatgatgact tgtagccaa agactgccac tgcataagag 960
232 cagtccctgg cctccactg tgcacctgcg cgggggaggc gacctcagtt gtcttgcct 1020
234 gtggaatggg ctcaaggttc ctgagacacc cgattcctgc ccaaacagct gtatttatat 1080
236 aagtctgtta tttattatta atttattggg gtgaccttct tggggactcg ggggctggtc 1140
238 tgatggaact gtgtatttat ttaaaaactc ggtgataaaa ataaagctgt ctgaactgtt 1200
240 c 1201
243 <210> SEQ ID NO: 4
244 <211> LENGTH: 3287
245 <212> TYPE: DNA
246 <213> ORGANISM: Homo sapiens
248 <400> SEQUENCE: 4
249 agactgaggc ggaggcagcc ccgcgccg cgggacccca gcatatttca ttttctgtca 60
251 ttggactttg agccattaga accatgagca actacagtgt gtcactgggt ggcccagctc 120
253 cttgggggtt ccggctgcag ggcggtaagg atttcaacat gcctctgaca atctctagtc 180
255 taaaagatgg cggcaaggca gcccaggcaa atgtaagaat aggcgatgtg gttctcagca 240
257 ttgatggaat aaatgcacaa ggaatgactc atcttgaagc ccagaataag attaagggtt 300
259 gtacaggctc tttgaatatg actctgcaaa gagcatctgc tgcaccaag cctgagccgg 360
261 ttctgttcca aaaggagaa cctaaagaag tagttaaac tgtgcccatt acatctcctg 420
263 ctgtgtccaa agtcacttcc acaaacaaca tggcctacaa taaggcacca cggccttttg 480

```

RAW SEQUENCE LISTING

DATE: 06/30/2005

PATENT APPLICATION: US/10/054,498

TIME: 10:09:38

Input Set : A:\Seq.Listing.ST25.txt

Output Set: N:\CRF4\06302005\J054498.raw

```

265 gttctgtgtc ttcacccaaa gtcacatcca tcccatcacc atcgtctgcc ttcacccag 540
267 cccatgcgac cacctcatca catgcttccc cttcacccgt ggctgccgtc actcctcccc 600
269 tgttcgctgc atctggactg catgctaag ccaatcttag tgetgaccag tctccatctg 660
271 cactgagcgc tggtaaaact gcagttaatg tcccacggca gcccacagtc accagcgtgt 720
273 gttccgagac ttctcaggag ctagcagagg gacagagaag aggatcccag ggtgacagta 780
275 aacagcaaaa tggcccacca agaaaacaca ttgtggagcg ctatacagag ttttatcatg 840
277 taccactca cagtgatgcc agcaagaaga gactgattga ggatactgaa gactggcgctc 900
279 caagaactgg aacaactcag tctcgctctt tccgaatcct tgcccagatc actgggactg 960
281 aacatttgaa agaacttgaa gccgataata caaagaaggc aaataactct caggagcctt 1020
283 ctccgcagtt ggcttccttg gtagcttcca cacggagcat gcccagagagc ctggacagcc 1080
285 caacctctgg cagaccaggg gttaccagcc tcacaactgc agctgccttc aagcctgtag 1140
287 gatccactgg cgtcatcaag tcaccaagct ggcaacggcc aaaccaagga gtaccttcca 1200
289 ctggaagaat ctcaaacagc gctacttact caggatcagt ggcaccagcc aactcagctt 1260
291 tgggacaaac ccagccaagt gaccaggaca ctttagtgca aagagctgag cacattccag 1320
293 cagggaacg aactccgatg tgcgcccatt gtaaccaggc catcagagga ccattcttag 1380
295 tggcactggg gaaatcttg caccagaag aattcaactg cgctcactgc aaaaatacaa 1440
297 tggcctacat tggatttgta gaggagaaag gagccctgta ttgtgagctg tgctatgaga 1500
299 aattctttgc ccctgaatgt ggtcgatgcc aaaggaagat ccttgagaga gtcataatg 1560
301 cgttgaaaaca aacttggcat gtttctctgt ttgtgtgtgt agcctgtgga aagcccattc 1620
303 ggaacaatgt ttttacttg gaggatggtg aacctactg tgagactgat tattatgccc 1680
305 tctttggtac tatatgccat ggatgtgaat tcccataga agctggtgac atgttcttgg 1740
307 aagctctggg ctacacctgg catgacactt gctttgtatg ctcagtgtgt tgtgaaagtt 1800
309 tgggaaggtca gacctttttc tccaagaagg acaagcccct gtgtaagaaa catgctcatt 1860
311 ctgtgaatth ttgaaagtca acagttcagg agaagagaag gaatttgaag agaaaaagga 1920
313 aaattaaaat tactaattaa tttttagatt caatattht atggagttht gaaaaataat 1980
315 agtggccctg aaggaataaa ttccagcttt aaaaaccaag tctgaggaaa tattttggctt 2040
317 cataaagtaa agagacgggt tggcattttat tattacttht tctgtattht tatgccata 2100
319 aaataagctt tataaaaacc aatttcttga tggactatta aattcatctt agaataaatt 2160
321 agtgaagaat ttaattttag aataaataat ccaatctgaa ataattatac cttctttcct 2220
323 tgtaggttag ttatgagtaa atctgcaaaa ggcaatgaaa atgccttaa ttttatcaat 2280
325 aacagaatta ttgtatthta aaaaaacta atacttatct ttaaaatagt aaataggatt 2340
327 ttaaacagag aattttatca gtaataggtg tcagtthtta aaaaattgct tgtaggctga 2400
329 gcgcggtggc tcacgcctgt aatcccagca ctttgggagg ccaaggtggg tggaccacat 2460
331 gaggtcagga gtttgagatc agcctggcca acatggtgaa accccatctc tactaaaaat 2520
333 acaaaaatta gccggacgca gtggcacgcg cctgtaatcc cagctactca agaggctgag 2580
335 gcacgagaat cacttgaacc cgggaggagg aggttgagc gagccaagat cgtaccactg 2640
337 cactccagcc tgggtgacag agtgagactc cgtctccaaa aaaaaacttt gcttgtatat 2700
339 tatttttgcc ttacagtggg tcattctagt aggaaggagc aataagattt tttatcaaaa 2760
341 tgtgtcatgc cagtaagaga tgttatattc ttttcttatt tcttccccac caaaaataa 2820
343 gctaccatat agcttataag tctcaaattt ttgcctthta ctaaaatgtg attgtttctg 2880
345 ttcatttgtg atgcttcatc acctatatta ggcaaattcc atthtttccc ttgcgctaag 2940
347 gtaaagattt aattaaataa ttttggcctc tcatagthtt ctctctcttt aaagagaata 3000
349 aatagagggc caggtgtggg ggctcacgcc tgtgatccca gcactttggg aggccaagac 3060
351 gggcgatca tgagggtcaag agatcaagat catcctggcc aacatggtga aacctgtct 3120
353 ctactaaaaa tacaaaaatg agctgggcat ggtggggcgt gcctgtagtc ccatgtactt 3180
355 gggaggctga ggcaggaaaa ttcttgaacc caggagacgg aagttgcagt gagctgagat 3240
357 cacaccactg cactccagcc tgggtgacaga gcaagactcc ggctctt 3287
360 <210> SEQ ID NO: 5
361 <211> LENGTH: 2480

```

RAW SEQUENCE LISTING

DATE: 06/30/2005

PATENT APPLICATION: US/10/054,498

TIME: 10:09:38

Input Set : A:\Seq.Listing.ST25.txt

Output Set : N:\CRF4\06302005\J054498.raw

```

362 <212> TYPE: DNA
363 <213> ORGANISM: Homo sapiens
365 <400> SEQUENCE: 5
366 tgggggttttc tctcaataat aagtgaacca atttcaaattg tgatcacaaa gtttggaaag      60
368 cttttatttca cagaggttgg gtagtggttg gaggggagtt taattactca gattggcctg      120
370 ttatttgatt tcctcctttg ggaaaagaat tatgtagata ccacatggag acagggaaac      180
372 aattgtggta aaactgtgga tcctgttgct atttgcccag tgagaaaaca gattctggta      240
374 tttgatttgg tttttctctt tgtttccaga atggatgaaa gtccatgaac ctccctaagtt      300
376 ataattttaa tttgtttggg gcaagggtgat tttatagtcg agacagagcc ctaggtcctt      360
378 cctgccccat cactcactta cgacatcact tccatttgtt gcatgtttgt tatagaggag      420
380 gtttttaggct acaatatttg tttaacctcc ctaagaactt tcaaggcatc tgtcctgaaa      480
382 gctgttaatt tatggtctag cagatttata ttatatgcag ataataatta actggggata      540
384 aaagaatggc aaggggtgac acaaagtagc aaactgaata cttctccaat agcaacccca      600
386 agctacctcc tcacctgca tcttggaggg aggcaggaaa tttcttttga aataaagtgc      660
388 tggagctgaa ttctgcatta tttatcgttg ctgctgaaac cacctataaa agacttgctg      720
390 gctaattgtc attgtcatat aatgtacact gtcacatctt tacagtctcg tatgttatag      780
392 aatacaaaat aagttgatgg ttttgtttgg tgtgagcttt ttgtttgttt agttttgcct      840
394 tcatagggtta tatgccaaga tagtatttga taagtcaatg acatttggat gttttcttca      900
396 aagaattttaa tttgaccag atttcttata aagttatctt acattaagga tgtcattttc      960
398 atcagacctt ctttctacat attattcatg aagcataatg ttgcatttct ccaaatttta     1020
400 tgctgaaaag gtagtggttg cttcctaagg tatcatgttg tctttgtgct ttgtccatct     1080
402 cttccgtggc gaagctttat atctgttcct aaaacagtta atcctgtgaa ataaatattg     1140
404 aacataatcc agaagaatct ctctatttcc cttggggaat gccatattta attcaccagc     1200
406 agtaatcctt taataactgg cagagcactt tattcttctg gtgagctccc tgaatattta     1260
408 tttttctgat tataaatttt ctatattagt agcatttttt aattattact tcttcactat     1320
410 agagcattta cttttagtct ctagatgtat attttggaat gctgtacttg gcataacata     1380
412 gattaaaaatc ataatgcatg actaaaaact ccttggattt atttcccat ttaaaatttt     1440
414 tagcggtaag ttcagattta taatctttct ctagacttcc atggtctgaa tgttgctgc     1500
416 tgaagtagca acctaaaaag tatcccctgc ttatgcttct ccagttggcc ctccatgtcc     1560
418 ataggcttcg catctgtgat tcagcccact gtgggtcaaa aatatttggg gaaaaaatgg     1620
420 atggttgccg ctttgcagaa catgtacaaa cttgtttttg tcattaaaca atatagtata     1680
422 acaactattt acaaagcatt tacattgtat tagctattat aggtaattcta gagatgattt     1740
424 aaagtgtatg gtaggagtgt cacaggttat atgcaaatac tacaccattt tctataaggg     1800
426 acttgaacat catggacttt agtatcctag ggggttcttg gaacccatca cccatagggg     1860
428 caccatagga caactatagt accgtgttta tttcctatta attcaggttc cgttttagagt     1920
430 ctaaaactaa aacctaata tttagtcaca gtgtaaaaac aaatggaaat aacagctcaa     1980
432 atcttcaaaa tattaccata gcattatgtt taaaataatc tacaacaaaa atgtaccatt     2040
434 ttcaagcagt actacattag gagccctttt atagaaaata atttcttctt taccctcggt     2100
436 ccagtgtgaa tctagtattc tgttaacatt tgtgtggcat ttggagtttg tcatcccat     2160
438 tgaagggaga gccttctcag acatgaagca agggaaacat actgaatagt ttacacaaa     2220
440 tttgatctgg cttccatttg tccccctcat tcccaaatg tttaaatgta ttggatttgg     2280
442 gttctcaatg tatatgttgc cttatctgtt aatgtctatc ttctgtctct ttaattttgt     2340
444 atatctgctg ttttgctttt ggatacattt tctaattaga agtcacatga taaatataat     2400
446 cagtatagta ataataccat aatgtgcaca tactcaataa ataaatgact gcattgttgc     2460
448 aaaaaaaaaa aaaaaaaaaa                                     2480
451 <210> SEQ ID NO: 6
452 <211> LENGTH: 1278
453 <212> TYPE: DNA
454 <213> ORGANISM: Homo sapiens

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/054,498

DATE: 06/30/2005
TIME: 10:09:39

Input Set : A:\Seq.Listing.ST25.txt
Output Set: N:\CRF4\06302005\J054498.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 143
Seq#:12; N Pos. 8148
Seq#:17; N Pos. 381,382,383,384,385,386,387,388,408,429,431,446,450,467,471
Seq#:17; N Pos. 478,480,481,482,483,484
Seq#:24; N Pos. 1,17,36,44,52,53,58,75,94,104,105,136,146,150,236,245,312
Seq#:24; N Pos. 319,347,389,392,428,443,449,483,503,528,534,543,567,585,605
Seq#:24; N Pos. 624,646,647,649,658,675,678,679,683,688,699,703,704,705,709
Seq#:24; N Pos. 710,722,723,728,729,735,744,745,748,752,753,756,758,765,790
Seq#:24; N Pos. 795,797,800,805,810,812,817,829,831,845,847,848,864,873
Seq#:26; N Pos. 5,102,206,385,420,423,463,557,568,582,627,640,649,671,696
Seq#:26; N Pos. 700,708
Seq#:43; N Pos. 455,517,557
Seq#:45; N Pos. 327

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:50,51,52,53

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/054,498

DATE: 06/30/2005

TIME: 10:09:39

Input Set : A:\Seq.Listing.ST25.txt

Output Set: N:\CRF4\06302005\J054498.raw

L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:120
L:1137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:8100
L:1611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:360
M:341 Repeated in SeqNo=17
L:2345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
M:341 Repeated in SeqNo=24
L:2497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
M:341 Repeated in SeqNo=26
L:12550 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:420
M:341 Repeated in SeqNo=43
L:12634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:300